

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/494,282
	Filing Date	January 18, 2000
	First Named Inventor	Sergey A. Selifonov
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-028930US

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					T
AA	AA	DAHIYAT et al., "Automated design of the surface positions of protein helices" <i>Protein Science</i> (1997) 6:1333-1337					
AB	AB	DAHIYAT and MAYO "De Novo Protein Design: Fully Automated Sequence Selection" <i>Science</i> (1997) vol. 278 pp. 82-87					
AC	AC	DAHIYAT et al., "De Novo Protein Design: Towards Fully Automated Sequence Selection" <i>J. Mol. Biol.</i> (1997) 273:789-796					
AD	AD	DAHIYAT and MAYO "Probing the role of packing specificity in protein design" <i>Proc. Natl. Acad. Sci. U.S.A.</i> vol. 94 pp. 10172-10177					
AE	AE	GORDON and MAYO "Branch-and-Terminate: a combinatorial optimization algorithm for protein design" <i>Structure</i> (1999) 7:1089-1098					
AF	AF	GORDON et al., "Energy functions for protein design" <i>Current Opinion in Structural Biology</i> (1999) 9:509-513					
AG	AG	GORDON and MAYO "Radical Performance Enhancements for Combinatorial Optimization Algorithms Based on the Dead-End Elimination Theorem" <i>Journal of Computational Chemistry</i> , 1998 vol. 19, no. 13, 1505-1514					
AH	AH	HANEY et al., "Structural Basis for Thermostability and Identification of Potential Active Site Residues for Adenylate Kinases From the Archaeal Genus <i>Methanococcus</i> " <i>Proteins</i> (1997) 28:117-130					
AI	AI	MALAKAUSKAS and MAYO "Design, structure and stability of a hyperthermophilic protein variant" <i>Nature Structural Biology</i> (1998) vol. 5, no. 6, 470-475					
AJ	AJ	POLLOCK et al., "Coevolving Protein Residues: Maximum Likelihood Identification and Relationship to Structure" <i>J. Mol. Biol.</i> (1999) 287:187-198					
AK	AK	STREET and MAYO "Computational protein design" <i>Structure</i> (1999) 7:R105-R109					

Examiner Signature		Date Considered	3/7/01
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	Group Art Unit	Unassigned
	Examiner Name	Unassigned
Attorney Docket Number	02-028930US	

AL	STREET and MAYO "Intrinsic B-sheet propensities result from van der Waals interactions between side chains and local backbone" <i>Proc. Natl. Acad. Sci. U.S.A.</i> (1999) vol. 96 pp. 9074-9076
AM	STREET and MAYO "Pairwise calculation of protein solvent-accessible surface areas" <i>Folding & Design</i> (1998) 3:253-258
AN	STROP and MAYO "Rubredoxin Variant Folds without Iron" <i>J. American Chem. Soc.</i> (1999) vol. 121 no. 11 pp. 2341-2345
AO	WOLLENBERG and ATCHLEY "Separation of phylogenetic and functional associations in biological sequences by using the parametric bootstrap" <i>PNSA</i> vol. 97, no. 7, pp. 3288-3291

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Subsidiary form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/494,282
	Filing Date	January 18, 2000
	First Named Inventor	Sergey A. Selifonov
	Group Art Unit	1635
	Examiner Name	Unassigned
Attorney Docket Number	02-028930US	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	AA	STEMMER et al., Single-step assembly of a gene and entire plasmid for large numbers of oligodeoxyribonucleotides <i>Gene</i> 164 (1995) 49-53	

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	Application Number	09/494,282
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	Group Art Unit	1631
	Examiner Name	S. Zhou
Attorney Docket Number		02-028930US

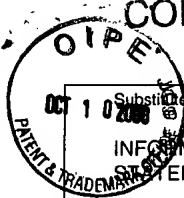
U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
86	AA	09/408,392		Cramer et al.	09-28-1999	
86	AB	09/408,393		Welch et al.	09-28-1999	
86	AC	09/416,375		Selifonov, et al.	10-12-1999	
86	AD	09/484,850		Cramer, et al.	01-18-2000	
86	AE	09/539,486		Selifonov et al.	03-30-2000	
86	AF	09/618,579		Selifonov et al.	07-18-2000	
86	AG	09/626,588		Cramer et al.	07-27-2000	
86	AH	09/626,930		Cramer et al.	07-27-2000	
86	AI	09/626,595		Cramer et al.	07-27-2000	
86	AJ	09/626,929		Cramer et al.	07-27-2000	
86	AK	09/626,601		Cramer et al.	07-27-2000	
86	AL	09/694,863		Cramer et al.	10-23-2000	
86	AM	09/694,864		Cramer et al.	10-23-2000	
86	AN	09/721,601		Cramer et al.	11-21-2000	
86	AO	09/721,396		Selifonov et al.	11-21-2000	
86	AP	09/721,395		Selifonov et al.	11-21-2000	
86	AQ	09/721,598		Selifonov et al.	11-21-2000	
86	AR	09/718,765		Selifonov et al.	11-21-2000	
86	AS	09/718,849		Selifonov et al.	11-21-2000	
86	AT	09/718,682		Selifonov et al.	11-21-2000	
86	AU	09/721,365		Selifonov et al.	11-21-2000	

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		Office	Number	Kind Code (if known)				
86	AV	WO	00/42560		Maxygen Inc.	07-20-2000		
86	AW	WO	00/42561		Maxygen, Inc.	07-20-2000		

Examiner Signature	<i>Shub Zhou</i>	Date Considered	03/07/01
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	First Named Inventor	Sergey A. Selifonov	
	Group Art Unit	Unassigned	
	Examiner Name	Unassigned	
		Attorney Docket Number	02-028920US

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<i>AS</i>	AA	Crameri & Stemmer "1020-Fold aptamer library amplification without gel purification" <u>Nucleic Acid Research</u> (1993) Vol. 21 No. 18 p. 4110			
<i>AB</i>	AB	Feng & Doolittle, <i>J. Mol. Evol.</i> 35:351-360 (1987)			
<i>AC</i>	AC	Higgins & Sharp, <i>CABIOS</i> 5:151-153 (1989).			
<i>AD</i>	AD	Sun (1999) "Modeling DNA Shuffling" <u>Journal of Computational Biology</u> 6(1):77-90			
<i>E</i>					

Examiner Signature	<i>Shuffhauer</i>	Date Considered	<i>3/6/01</i>
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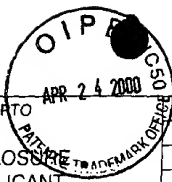
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class/subclass

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Q	AA	5,512,463		Stemmer	04-30-1996	435/91.2
Q	AB	5,514,588		Varadaraj	05-07-1996	435/262
Q	AC	5,605,793		Stemmer	02-25-1997	435/6
Q	AD	5,763,239		Short et al.	06-09-1998	435/6
Q	AE	5,789,228		Lam et al.	08-04-1998	435/209
Q	AF	5,811,238		Stemmer et al.	09-22-1998	435/6
Q	AG	5,814,473		Warren et al.	09-29-1998	435/15
Q	AH	5,830,696		Short	11-03-1998	435/69.1
Q	AI	5,830,721		Stemmer et al.	11-03-1998	435/69.1
Q	AJ	5,834,252		Stemmer et al.	11-10-1998	435/489
Q	AK	5,837,458		Minushull et al.	11-17-1998	435/91.1
Q	AL	5,876,997		Kretz	03-02-1999	435/96
Q	AM	5,925,749		Mathur, et al.	07-20-1999	435/23.1
Q	AN	5,928,905		Stemmer, et al.	07-27-1999	435/23.1 91.1
Q	AO	5,939,250		Short, Jay M.	08-17-1999	435/23.1 435/4
Q	AP	5,939,300		Robertson, et al.	08-17-1999	435/23.1 192
Q	AQ	5,942,430		Robertson, et al.	08-24-1999	435/23.1 197
Q	AR	5,948,666		Callen, et al.	09-07-1999	435/194
Q	AS	5,958,672		Short, Jay M.	09-28-1999	435/23.1 4
Q	AT	5,958,751		Murphy, et al.	09-28-1999	435/23.1 208
Q	AU	5,962,258		Mathur, et al.	10-05-1999	435/23.1 69.1
Q	AV	5,962,283		Warren et al.	10-05-1999	435/128
Q	AW	5,965,408		Short, Jay M.	10-12-1999	435/252.3
Q	AX	5,985,646		Murphy, et al.	11-16-1999	435/252.3

Examiner Signature	<i>[Signature]</i>	Date Considered	3/7/01
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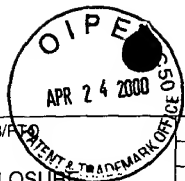


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		Office	Number	Kind Code (if known)				
AY	WO	97/07205			Novo Nordisk A/S	02-27-1997		
AZ	WO	97/20078			Affymax Technologies	06-05-1997		
BA	WO	97/25410			Novo Nordisk A/S	07-17-1997		
BB	WO	97/35957			Maxygen, Inc.	10-02-1997		
BC	WO	97/35966			Maxygen, Inc.	10-02-1997		
BD	WO	97/44361			Recombinant Biocatalysis Inc.	11-27-1997		
BE	WO	97/48416			Recombinant Biocatalysis, Inc.	12-24-1997		
BF	WO	97/48717			Recombinant Biocatalysis Inc	12-24-1997		
BG	WO	97/48794			Recombinant Biocatalysis Inc	12-24-1997		
BH	WO	98/00526			Recombinant Biocatalysis Inc	01-08-1998		
BI	WO	98/01581			Recombinant Biocatalysis Inc	01-15-1998		
BJ	WO	98/13485			Maxygen, Inc.	04-02-1998		
BK	WO	98/13487			Maxygen, Inc.	04-02-1998		
BL	WO	98/24799			Diversa Corp.	06-11-1998		
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BP	WO	98/36080			Maxygen, Inc.	08-20-1998		
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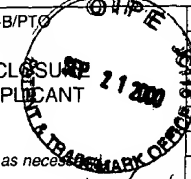
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BW	WO	99/07837		Diversa Corp.	02-19-1999	
BX	WO	99/08539		Diversa Corp.	02-25-1999	
BY	WO	99/10472		Diversa Corp.	03-04-1999	
BZ	WO	99/10539		Diversa Corp.	03-04-1999	
CA	WO	99/19518		Diversa Corp.	04-22-1999	
CB	EP	0911396A2		Maxygen, Inc.	04-28-1999	
CC	WO	99/21979		Maxygen, Inc.	05-06-1999	
CD	EP	0911396A3		Maxygen, Inc.	05-06-1999	
CE	WO	99/23107		Maxygen, Inc.	05-14-1999	
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CG	EP	0934999A1		Maxygen, Inc.	08-11-1999	
CH	WO	99/41368		Maxygen, Inc.	08-19-1999	
CI	WO	99/41369		Maxygen, Inc.	08-19-1999	
CJ	WO	99/41383		Maxygen, Inc.	08-19-1999	
CK	WO	99/41402		Maxygen, Inc.	08-19-1999	
CL	WO	99/45154		Diversa Corp.	09-10-1999	
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CN	WO	99/65927		Maxygen, Inc.	12-23-1999	

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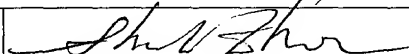
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Approved for use through 10/31/99. OMB 0651-0031

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	<div style="text-align: center;">  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Complete if Known</th> </tr> <tr> <td>Application Number</td> <td>09/416,375</td> </tr> <tr> <td>Filing Date</td> <td>October 12, 1999</td> </tr> <tr> <td>First Named Inventor</td> <td>Sergey A. Selifonov</td> </tr> <tr> <td>Group Art Unit</td> <td>Unassigned</td> </tr> <tr> <td>Examiner Name</td> <td>Unassigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>02-028920US</td> </tr> </table>	Complete if Known		Application Number	09/416,375	Filing Date	October 12, 1999	First Named Inventor	Sergey A. Selifonov	Group Art Unit	Unassigned	Examiner Name	Unassigned	Attorney Docket Number	02-028920US
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AA	5,603,793		465/b	Yoshida et al.	02-18-1997	

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82	AB	WO	95/22625		Affymax Technologies, N.V.	08-24-1995		
82	AC	WO	96/33207		Glaxo Group Limited	10-24-1996		

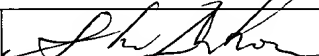
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AD		Altschul et al., <i>J. Mol. Biol.</i> 215:403-410 (1990)	
AE		Boehnke et al. (1991) "Statistical methods for multipoint radiation hybrid mapping" <u>Am. J. Hum. Genet.</u> 49:1174-1188	
AF		Brunner and Bujard (1987) <u>EMBO J.</u> 6:3139-3144	
AG		Chang et al. (1999) "Evolution of a cytokine using DNA family shuffling" <u>Nature Biotechnology</u> 17:793-797	
AH		Christians et al. (1999) "Directed evolution of thymidine kinase for AZT phosphorylation using DNA family shuffling" <u>Nature Biotechnology</u> 17:259-264	
AI		Crameri and Stemmer (1995) "Combinatorial multiple cassette mutagenesis creates all the permutations of mutant and wildtype cassettes" <u>BioTechniques</u> 18:194-195	
AJ		Crameri et al. (1996) "Construction and evolution of antibody-phage libraries by DNA shuffling" <u>Nature Medicine</u> 2:100-103	
AK		Crameri et al. (1996) "Improved green fluorescent protein by molecular evolution using DNA shuffling" <u>Nature Biotechnology</u> 14:315-319	
AL		Crameri et al. (1997) "Molecular evolution of an arsenate detoxification pathway by DNA shuffling," <u>Nature Biotechnology</u> 15:436-438;	
AM		Crameri et al. (1998) "DNA shuffling of a family of genes from diverse species accelerates directed evolution" <u>Nature</u> 391:288-291	
AN		Gates et al. (1996) "Affinity selective isolation of ligands from peptide libraries through display on a lac repressor 'headpiece dimer'" <u>Journal of Molecular Biology</u> 255:373-386	

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AO	Irvine et al. (1991) "SELEXION: systematic evolution of ligands by exponential enrichment with integrated optimization by non-linear analysis" <u>J. Mol. Biol.</u> 222:739-761	
AP	Jonsson et al. (1993) <u>Nucleic Acids Res.</u> 21:733-739	
AQ	Kelly et al. (1994) "A test of the Markovian model of DNA evolution" <u>Biometrics</u> 50(3):653-64	
AR	Knaus and Bujard (1988) <u>EMBO J.</u> 7:2919-2923	
AS	Lander and Waterman (1988) Genomic mapping by fingerprinting random clones: a mathematical analysis" <u>Genomics</u> 2:231-239	
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Examiner Signature		Date Considered	3/7/01
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Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/416,375
	Filing Date	October 12, 1999
	First Named Inventor	Sergey A. Selifonov
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-028920US

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
A	AA	WO	95/15972		Thomas Jefferson University	06-15- 1995		
A	AB	WO	98/49350		Regents of the University of Minnesota	11-05- 1998		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T
	AC	Giver and Arnold "Combinatorial protein design by in vitro recombination" <u>Current Opinion in Chemical Biology</u> (1998) 2:335-338			
	AD	Sun, Fengzhu, "Modeling DNA Shuffling" <u>Proceedings of the Second Annual International Conference on Computational Molecular Biology</u> (1998) 251-257			
	AE	Zhao et al., "Molecular evolution by staggered extension process (StEP) in vitro recombination" <u>Nature Biotechnology</u> Vol. 16 (1998) pp. 258-261			

Examiner Signature		Date Considered	03/06/01
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